Component-based simulation on the Web?

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Abstract:
Various forms of distributed simulation are possible over the world-wide web, includi simple multiple replications of the same model, client-server architectures for one or more simultaneously running models and the distributed operation of one or more lir models. Like all web-based operations, these simulations are slow due to current bandwidth limitations, but that could change in the next few years. Languages such Java make this distributed work possible within standard web-browsers such as Inter Explorer and Netscape, though security considerations mean that this is not always straightforward. Component-based simulation stems from the ideas of object-orienta which enable libraries of simulation based components to be developed for re-use. Tl development of the world-wide-web means that distributed component, discrete simulation libraries in Java are now feasible. This paper reviews some of these developments and considers requirements for such distributed libraries, drawing on experience at Lancaster

Index Terms:
Internet Java client-server systems digital simulation information resources object-orient programming Internet Explorer Netscape **bandwidth limitations** client-**server** architectur component-based simulation discrete simulation libraries distributed simulation object-orientation web-browsers world-wide web

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